

Notice of Allowability

Application No.

09/764,595

Examiner

Chat C. Do

Applicant(s)

KRYGOWSKI ET AL.

Art Unit

2124

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 4/29/2004.
2. ☒ The allowed claim(s) is/are 1-12 and 14-18.
3. ☒ The drawings filed on 18 January 2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>07/21/04</u> . |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Anne Davis Barry on 07/15/2004.

The application has been amended as follows:

Re claim 1 line12, the phrase "internal floating point format" should replace as "internal floating point format by multiplexing the exponent value".

Re claim 18, the phrase "is performed" should replace as "is performed by a multiplexor for multiplexing the exponent data" line 8 and the phrase "is performed" should replace as "is performed by the multiplexor" in line 9.

These changes in independent claims 1 and 18 would distinct and clarify the invention.

EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

2. Claims 1-12 and 14-18 are allowed.
3. Claim 13 is cancelled.

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4. The rejection of claims 1-12 and 14-18 made in the earlier Office action is withdrawn in view of applicant's arguments present in the Appeal Brief filed 04/29/2004. In page 6 lines 14-18, the applicant argued that the cited reference fails to disclose a step of converting into the internal floating-point format occurs without incurring additional clock cycles.

5. The following is an examiner's statement of reasons for allowance:

The prior art of records fails to disclose or render obvious a computer method and system for supporting a plurality of floating point architectures comprising: a floating-point unit having an internal data-flow according to an internal floating point format; and a converter for converting floating-point architectures into the internal floating point format for operations wherein converting by multiplexing the exponent bits of the operands into the internal floating-point format would occur without incurring additional clock cycles from hexadecimal to internal floating-point format as cited in the independent claims 1, 12, and 18.

The closest found prior art is Schwarz et al. (U.S. 5,687,106). Schwarz et al. disclose an implementation of binary floating-point using hexadecimal floating-point unit comprising an architecture of converting the floating-point architecture to the internal floating-point format. However, Schwarz et al. fail to disclose the step of converting by a multiplexor for multiplexing the exponent value into the internal floating-point format occurs without incurring additional clock cycles from hexadecimal to internal floating-point format.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

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fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chat C. Do whose telephone number is (703) 305-5655. The examiner can normally be reached on M => F from 7:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chaki Kakali can be reached on (703) 305-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system: Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chat C. Do
Examiner
Art Unit 2124

July 21, 2004


JOHN CHAVIS
PATENT EXAMINER
ART UNIT 2124

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